

# Ziqi Liang

## List of Publications by Citations

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65  
papers

3,546  
citations

31  
h-index

59  
g-index

70  
ext. papers

4,057  
ext. citations

12.2  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
65	2D Ruddlesden-Popper Perovskites for Optoelectronics. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703487	24	423
64	Solution processed organic thermoelectrics: towards flexible thermoelectric modules. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 401-422	35.4	311
63	One-Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of Fe <sub>2</sub> O <sub>3</sub> /Graphene Composites with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5719-5727	15.6	289
62	Tailoring Organic Cation of 2D Air-Stable Organometal Halide Perovskites for Highly Efficient Planar Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700162	21.8	257
61	Structure and Growth Control of Organic-Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals. <i>Advanced Science</i> , <b>2016</b> , 3, 1500392	13.6	152
60	Insights into charge carrier dynamics in organo-metal halide perovskites: from neat films to solar cells. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 5714-5729	58.5	147
59	Thick Film Polymer Solar Cells Based on Naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700944	21.8	115
58	Non-Thermal Annealing Fabrication of Efficient Planar Perovskite Solar Cells with Inclusion of NH <sub>4</sub> Cl. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1448-1451	9.6	114
57	Efficient and balanced charge transport revealed in planar perovskite solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 4471-5	9.5	105
56	Ultrasensitive Photodetectors Based on Island-Structured CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21634-8	9.5	96
55	Triple-cation mixed-halide perovskites: towards efficient, annealing-free and air-stable solar cells enabled by Pb(SCN) additive. <i>Scientific Reports</i> , <b>2017</b> , 7, 46193	4.9	92
54	Bendable n-Type Metallic Nanocomposites with Large Thermoelectric Power Factor. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604752	24	87
53	Ternary Blend Strategy for Achieving High-Efficiency Organic Solar Cells with Nonfullerene Acceptors Involved. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802004	15.6	77
52	Inter-phase charge and energy transfer in Ruddlesden-Popper 2D perovskites: critical role of the spacing cations. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6244-6250	13	70
51	3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity. <i>Small</i> , <b>2015</b> , 11, 5889-94	11	70
50	Electroluminescent Materials and Devices. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2783-2799	15.6	69
49	Phase Engineering in Quasi-2D Ruddlesden-Popper Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2627-2631	6.4	64

48	Interfacial engineering by using self-assembled monolayer in mesoporous perovskite solar cell. <i>RSC Advances</i> , <b>2015</b> , 5, 94290-94295	3.7	57
47	Lead Replacement in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskites. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500089	6.4	56
46	Swift Electrofluorochromism of Donor-Acceptor Conjugated Polytriphenylamines. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18301-8	9.5	54
45	Defect Engineering in $\pi$ -Conjugated Polymers. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4914-4919	9.6	53
44	Long-term stable silver nanowire transparent composite as bottom electrode for perovskite solar cells. <i>Nano Research</i> , <b>2018</b> , 11, 1998-2011	10	48
43	Compensating poly(3-hexylthiophene) reveals its doping density and its strong exciton quenching by free carriers. <i>Advanced Materials</i> , <b>2012</b> , 24, 3258-62	24	46
42	Hot-Injection Synthesis of Cu-Doped Cu <sub>2</sub> SnSe <sub>3</sub> Nanocrystals to Reach Thermoelectric zT of 0.70 at 450°C. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24403-8	9.5	45
41	Efficient and Stable Ternary Organic Solar Cells Based on Two Planar Nonfullerene Acceptors with Tunable Crystallinity and Phase Miscibility. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20704-20710	9.5	40
40	Enabling room-temperature processed highly efficient and stable 2D Ruddlesden-Popper perovskite solar cells with eliminated hysteresis by synergistic exploitation of additives and solvents. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2015-2021	13	39
39	Benefiting from Spontaneously Generated 2D/3D Bulk-Heterojunctions in Ruddlesden-Popper Perovskite by Incorporation of S-Bearing Spacer Cation. <i>Advanced Science</i> , <b>2019</b> , 6, 1900548	13.6	38
38	Flexible Thermoelectric Generators with Ultrahigh Output Power Enabled by Magnetic Field-Aligned Metallic Nanowires. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800200	6.4	35
37	Nanomaterials in Electrochemiluminescence Sensors. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1651-1662	4.3	33
36	Recent Advances in n-Type Thermoelectric Nanocomposites. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800943	6.4	32
35	Nonvolatile chlorinated additives adversely influence CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> based planar solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9137-9140	13	32
34	Nonconfinement Structure Revealed in Dion-Jacobson Type Quasi-2D Perovskite Expedites Interlayer Charge Transport. <i>Small</i> , <b>2019</b> , 15, e1905081	11	28
33	Advancing Tin Halide Perovskites: Strategies toward the ASnX <sub>3</sub> Paradigm for Efficient and Durable Optoelectronics. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2052-2086	20.1	27
32	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , <b>2018</b> , 5, 500-506	10.8	25
31	Unveiling Excitonic Dynamics in High-Efficiency Nonfullerene Organic Solar Cells to Direct Morphological Optimization for Suppressing Charge Recombination. <i>Advanced Science</i> , <b>2019</b> , 6, 1802103	13.6	24

30	Chemically treating poly(3-hexylthiophene) defects to improve bulk heterojunction photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2042-50	9.5	22
29	Air-Stable and Self-Driven Perovskite Photodiodes with High On/Off Ratio and Swift Photoresponse. <i>Small</i> , <b>2018</b> , 14, e1802764	11	22
28	FAPbCl <sub>3</sub> Perovskite as Alternative Interfacial Layer for Highly Efficient and Stable Polymer Solar Cells. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600329	6.4	21
27	Light and Thermally Induced Evolutional Charge Transport in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1000-1006	20.1	20
26	Thermoelectric Enhancement of Ternary Copper Chalcogenide Nanocrystals by Magnetic Nickel Doping. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500473	6.4	18
25	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500333	6.4	17
24	2D/1A Strategy to Regulate Film Morphology for Efficient and Stable Nonfullerene Organic Solar Cells. <i>Macromolecules</i> , <b>2017</b> , 50, 6954-6960	5.5	17
23	Composition Engineering in Two-Dimensional Pb-Sn-Alloyed Perovskites for Efficient and Stable Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21343-21348	9.5	16
22	Mechanistic Investigation into Dynamic Function of Third Component Incorporated in Ternary Near-Infrared Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001564	15.6	15
21	Synergetic Solvent Engineering of Film Nanomorphology to Enhance Planar Perylene Diimide-Based Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22418-24	9.5	15
20	Non-Conjugated Polymers for Organic Photovoltaics: Physical and Optoelectronic Properties of Poly(perylene diimides). <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6784-6790	3.8	15
19	Correlating Molecular Structures with Transport Dynamics in High-Efficiency Small-Molecule Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13137-41	9.5	14
18	Semiconducting polymer contributes favorably to the Seebeck coefficient in multi-component, high-performance n-type thermoelectric nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9797-9805 <sup>11</sup>	13.9	11
17	Implementing an intermittent spin-coating strategy to enable bottom-up crystallization in layered halide perovskites. <i>Nature Communications</i> , <b>2021</b> , 12, 6603	17.4	9
16	Solvent-Mediated n-Type Doping of SWCNTs to Achieve Superior Thermoelectric Power Factor. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000288	6.8	8
15	Ultra-high electrical conductivity and superior bendability simultaneously enabled in Ag nanowire based nanocomposites. <i>RSC Advances</i> , <b>2017</b> , 7, 44254-44258	3.7	7
14	Topological Design of Inorganic/Organic Thermoelectric Nanocomposites Based on Electron Percolation Phonon Insulator Concept. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2927-2933	6.1	6
13	Activation Energy Spectra: Insights into Transport Limitations of Organic Semiconductors and Photovoltaic Cells. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1087-1091	15.6	6

12	Fine Control of Side Chains in Random EConjugated Terpolymers for Organic Photovoltaics. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 1513-1520	2.6	6
11	Extraction Current Transients for Selective Charge-Carrier Mobility Determination in Non-Fullerene and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9190-9197	6.1	5
10	Achieving Efficient p-Type Organic Thermoelectrics by Modulation of Acceptor Unit in Photovoltaic EConjugated Copolymers. <i>Advanced Science</i> , <b>2021</b> , e2103646	13.6	4
9	Asymmetric Spacer in DionJacobson Halide Perovskites Induces Staggered Alignment to Direct Out-of-Plane Carrier Transport and Enhances Ambient Stability Simultaneously. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104342	15.6	4
8	Developing Halogen-Free Polymer Donors for Efficient Nonfullerene Organic Solar Cells by Addition of Highly Electron-Deficient Diketopyrrolopyrrole Unit. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100142	7.1	3
7	Efficient p-Type Doping of Tin Halide Perovskite via Sequential Diffusion for Thermoelectrics. <i>Small Science</i> , 2200004		2
6	Developing Y-Branched Polymer Acceptor with 3D Architecture to Reconcile Between Crystallinity and Miscibility Yielding >15% Efficient All-Polymer Solar Cells. <i>Advanced Science</i> , 2200864	13.6	2
5	Perovskites: Structure and Growth Control of OrganicInorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals (Adv. Sci. 4/2016). <i>Advanced Science</i> , <b>2016</b> , 3,	13.6	1
4	3D Printing: 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity (Small 44/2015). <i>Small</i> , <b>2015</b> , 11, 5888-5888	11	1
3	Conjugated Polymers-Based Chemical and Biological Sensors <b>2016</b> , 175-203		
2	Solution Processable n-Type Perylene Diimide Copolymers for Organic Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1286, 58		
1	Enhancing charge separation in conjugated microporous polymers for efficient photocatalytic hydrogen evolution. <i>Materials Advances</i> ,	3.3	